California Environmental Protection Agency

AIR RESOURCES BOARD

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR ENGINE FAMILY		DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)	
2002	2X9XL0505ABB	8.3	Diesel	8000	
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION		
Direct Dies	sel Injection, Turbocharg	er, Charge Air Cooler	Crane, Loader, Tractor, Dozer, Pump, Compressor		

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)				OPACITY (%)			
		:	нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
130 ≤ KW < 225	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	20	15	50
		FEL	N/A	8.5	N/A	N/A	N/A	N/A	N/A	N/A
		ÇERT	0.4	7.2		0.7	0.25	7	2	16

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this

R. B. Summerfield, Chief

Mobile Source Operations Division

Engine Model St. mary Form

Manufacturer: CNH Engine Corporation Inc.

Engine category: Nonroad Over 50 Hp

EPA Engine Family: 2X9XL0505ABB

Mfr Family Name: B413

Process Code: New Submission

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8.Fuel Rate: 9.Emission Control lbs/hr)@peak torque Device Per SAE J1930	NOT, TC, CAG	, TC, CAC	TC, CAC	TG, CAC	TC, CAC	<u>V</u> тс, сас		
8.Fuel Rate: (lbs/hr)@peak torque	71.8 D	71.8	71.8	71.8	64,1	59.5		
7.Fuel Rate: mm/stroke@peak torque	142	142	142	142	127	118		
6.Torque @ RPM (SEA Gross)	750@1500	750@1500	750@1500	750@1500	668@1500	616@1500		
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	91.0	91,0	91.0	91.0	81.8	80.6		
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	123	123	123	123	110	109		
3.BHP@RPM (SAE Gross)	240@2200	240@2200	240@2200	240@2200	215@2200	215@2200		
2.Engine Model	6TA-830	6TA-830	6TA-830	6TA-830	6TA-830	6TA-830		
1.Engine Code	2062;FR9878	2062;FR90162	2062;FR90541	2062;FR90503	2007;FR9875	2007;FR90163		